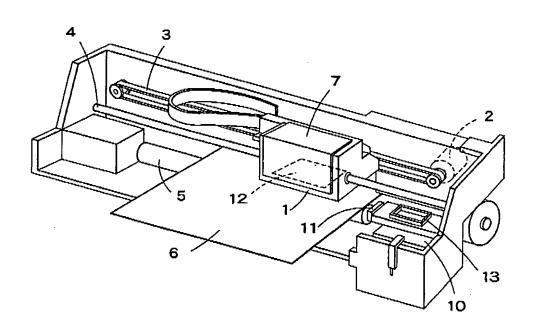
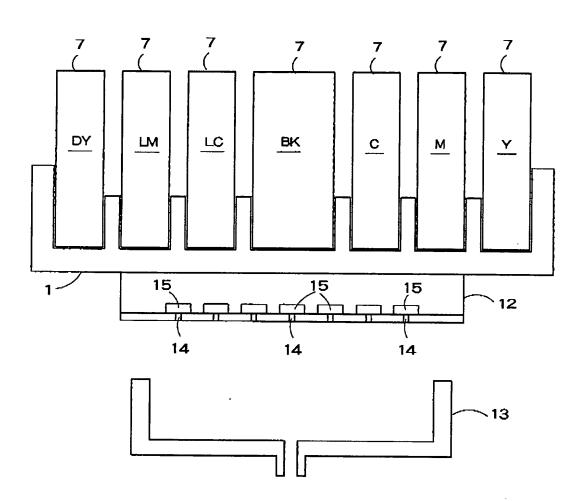
Yoshiaki SHIMIZU, et al. Q80869 LIQUID EJECTING APPARATUS Darryl Mexic 202-293-7060 April 1, 2004 1 of 15

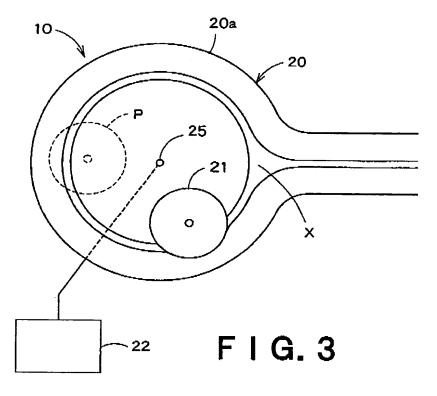


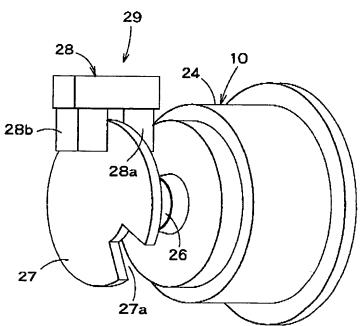
F | G. 1



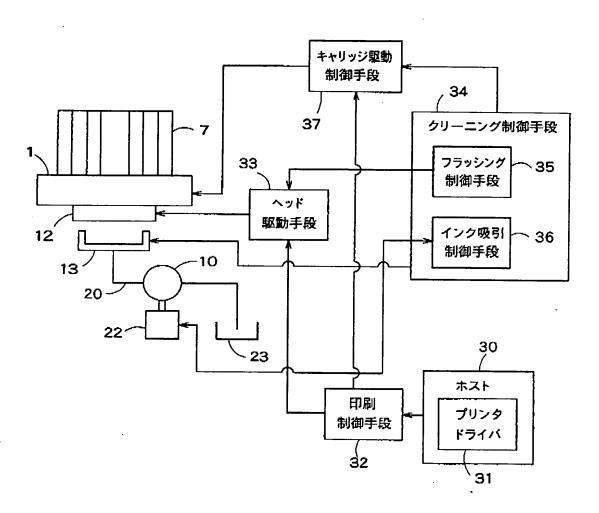
F I G. 2

Yoshiaki SHIMIZU, et al. Q80869 LIQUID EJECTING APPARATUS Darryl Mexic 202-293-7060 April 1, 2004 3 of 15

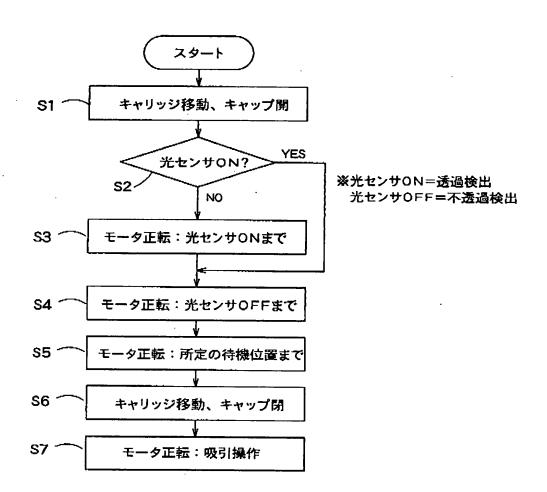




F I G. 4

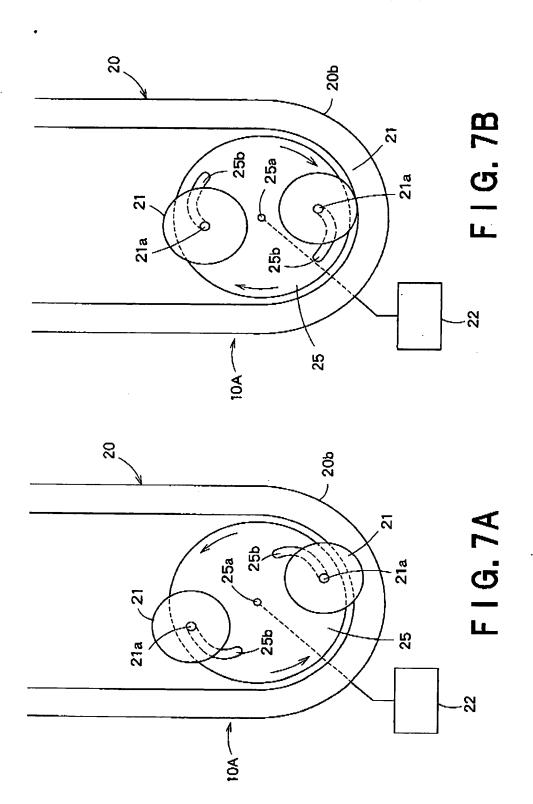


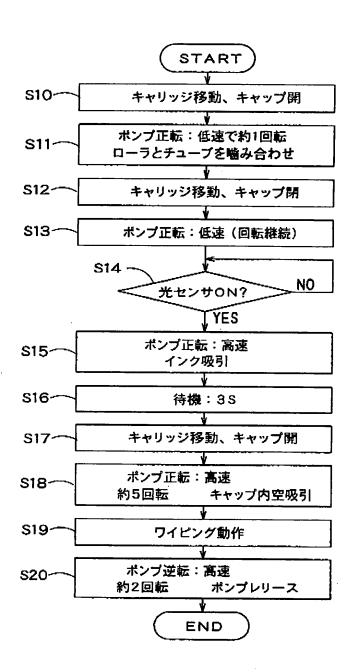
F I G. 5



F I G. 6

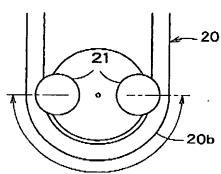
Yoshiaki SHIMIZU, et al. Q80869 LIQUID EJECTING APPARATUS Darryl Mexic 202-293-7060 April 1, 2004 6 of 15





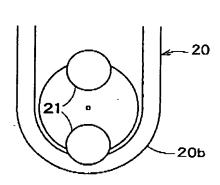
F I G. 8

 $\theta = 90$ °,270° ගදුම



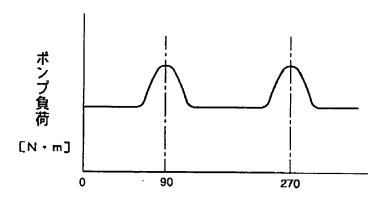
ローラがチューブを押しつぶす区間:180°

 $\theta = 0^{\circ}$,180 $^{\circ}$ のとき



F I G. 9A

F I G. 9B



角度θ [deg]

F I G. 9C

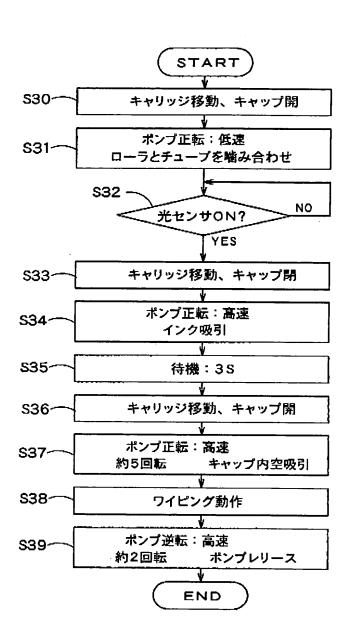
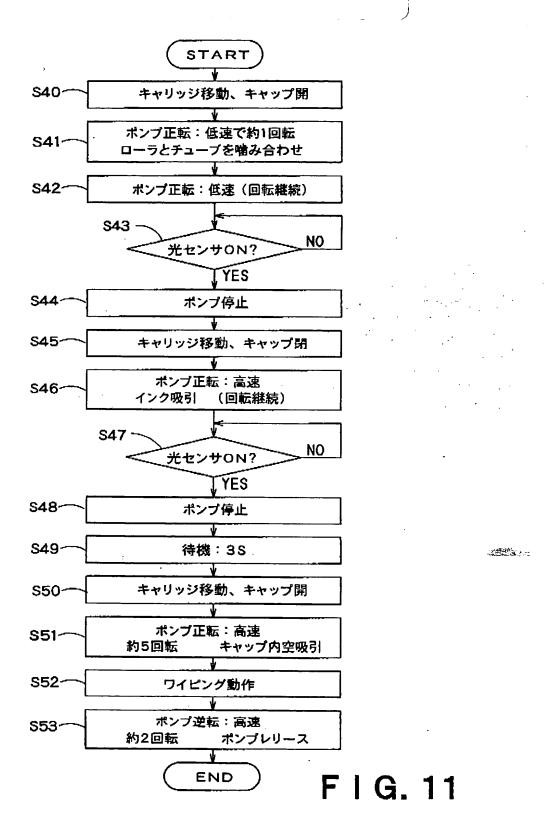
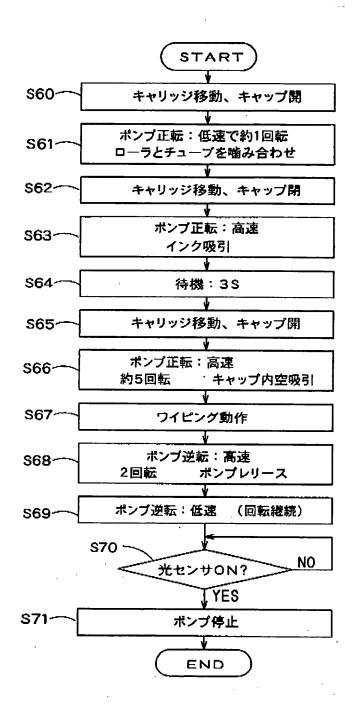


FIG. 10

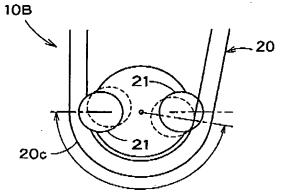




F I G. 12

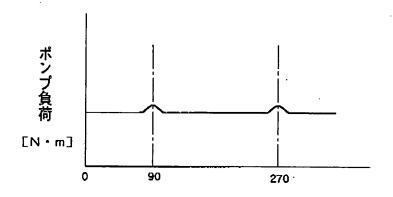
瑶花.

Yoshiaki SHIMIZU, et al. Q80869 LIQUID EJECTING APPARATUS Darryl Mexic 202-293-7060 April 1, 2004 12 of 15



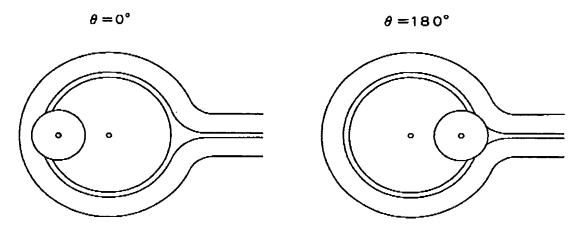
ローラがチューブを押しつぶす区間:170°

FIG. 13A



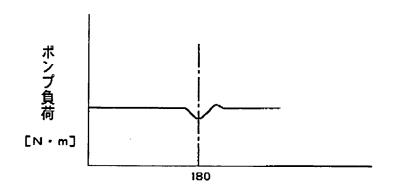
角度 θ [deg]

F I G. 13B



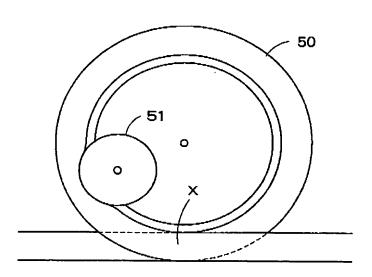
F I G. 14A

F I G. 14B

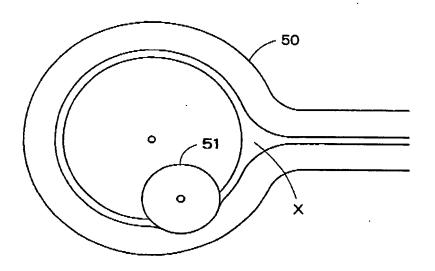


角度 θ [deg]

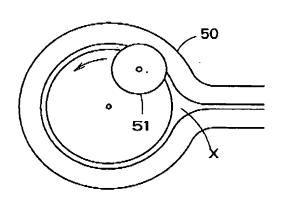
F | G. 14C



F I G. 15



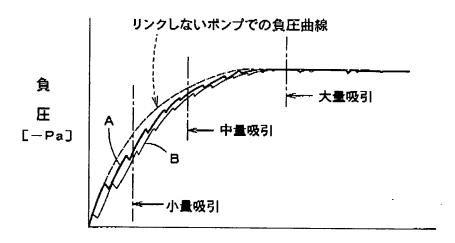
F I G. 16



51 ° ×

F I G. 17A

F I G. 17B



ポンプ回転の時間 [s]

F I G. 17C